

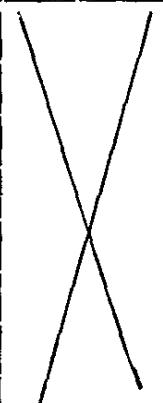
# Electronic Information Disclosure Statement


## PROCESS FOR TREATING SMECTITITE CLAYS TO FACILITATE EXFOLIATION

Application: \*09/848965\*  
09/848965  
Confirmation: 8816  
Applicant(s): CLOIS POWELL  
Docket Number: 562802102  
Group Art Unit:  
Examiner: Sanders, K. A.  
search string: ( 3687846 or 3951850 or 4190686 or 5188064 or 5464472 or 5969029 or 6287634 or 6287992 or 6407155 ),pn.

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
KS	P01	3687846	1972-08-29	*3687846*	Lang		
↑	P02	3951850	1976-04-20	*3951850*	Clocker et al.		
	P03	4190686	1980-02-26	*4190686*	Muis		
	P04	5188064	1993-02-23	*5188064*	House		
	P05	5464472	1995-11-07	*5464472*	Horn et al.		
	P06	5969029	1999-10-19	*5969029*	Kotani et al.		
↓	P07	6287634	2001-09-11	*6287634*	Beall et al.		
KS							


KS	P08	6287992	2001-09-11	*6287992*	Polansky et al.	
KS	P09	6407155	2002-06-18	*6407155*	Qian et al.	

## Remarks

(Remarks are not for responding to an office action.)

It is respectfully requested that this Information Disclosure Statment be entered and the documents listed on the attached electronic form be considered by the Examiner and made of record. A copy of the foreign documents (B1-B4) will be transmitted on a Form 1449 via the U.S. postal service.

## Signature

Examiner Name	Date
	10 / 03





<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO: 5628-02102  APPLICANT: Clois E. Powell  FILING DATE: May 4, 2001	SERIAL NO: 09/848,965  GROUP: 1714
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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS	A1	2,367,384	1/1945	Tymstra et al			
KS	A2	2,531,396	11/1950	Carter et al.			
	A3	2,531,440	11/1950	Jordan			
	A4	2,531,427	11/1950	Hauser			
	A5	2,531,812	11/1950	Hauser			
	A6	2,552,775	5/1951	Fischer et al.			
	A7	2,622,987	12/1952	Ratcliffe			
	A8	2,658,869	11/1953	Stross et al			
	A9	2,739,067	3/1956	Ratcliffe			
	A10	2,750,296	6/1956	Curado et al.			
	A11	2,754,219	7/1956	Voet et al.			
	A12	2,767,177	10/1956	Erickson			
	A13	2,795,545	6/1957	Gluesenkamp			
	A14	2,883,356	4/1959	Gluesenkamp			
	A15	2,966,506	12/1960	Jordan			
	A16	3,027,322	3/1962	Stuchell et al.			
	A17	3,084,117	4/1963	Nahin et al.			
	A18	3,125,547	3/1964	Blatz			
	A19	3,471,439	10/1969	Bixler et al			
	A20	3,537,994	11/1970	House			
	A21	3,567,680	3/1971	Iannicelli			
	A22	3,573,944	4/1971	Gebura			
✓	A23	3,671,190	6/1972	Neumann			
KS	A24	3,691,070	9/1972	Pippen			

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Information Disclosure Statement--PTO 1449 (modified)



<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO: 5628-02102  APPLICANT: Clois E. Powell  FILING DATE: May 4, 2001	SERIAL NO: 09/848,965  GROUP: 1714
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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS	A25	5,248,720	9/1993	Deguchi et al			
↑	A26	3,764,456	10/1973	Woodhams			
	A27	3,779,933	12/1973	Eisen			
	A28	3,804,656	4/1974	Kaliski et al.			
	A29	3,843,591	10/1974	Hedrick et al.			
	A30	3,839,389	10/1974	Neuman			
	A31	3,915,867	10/1975	Kang et al.			
	A32	3,951,850	4/1976	Clocker et al			
	A33	3,974,125	8/1976	Oswald et al.			
	A34	3,977,894	8/1976	White et al.			
	A35	3,988,287	10/1976	Inokuchi et al			
	A36	4,040,974	8/9/1977	Wright et al.			
	A37	4,049,780	9/1977	Neumann			
	A38	4,053,493	10/1977	Oswald			
	A39	4,060,518	11/1977	Jeserich et al.			
	A40	4,081,496	3/1978	Finlayson			
	A41	4,087,365	5/1978	Clem			
	A42	4,105,578	8/1978	Finlayson et al.			
	A43	4,116,866	9/1978	Finlayson			
	A44	4,216,135	8/1980	Finlayson			
	A45	4,240,951	12/1980	Moll, Jr. et al.			
	A46	4,251,576	2/1981	Osborn et al.			
✓	A47	4,291,154	9/1981	Blount			
KS	A48	4,290,935	9/1981	Muraki			

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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS ↑	A49	4,314,919	2/1982	Washabaugh et al.			
	A50	4,314,929	2/1982	Mahoney, Jr.			
	A51	4,315,828	2/1982	Church			
	A52	4,444,714	4/1984	Martenson			
	A53	4,339,391	7/1982	Hoffmann et al.			
	A54	4,341,565	7/1982	Martenson			
	A55	4,349,389	9/1982	Schofield			
	A56	4,365,030	12/1982	Oswald et al			
	A57	4,382,868	5/1983	House			
	A58	4,386,010	5/1983	Hildebrandt			
	A59	4,391,637	7/1983	Mardis et al.			
	A60	4,410,364	10/1983	Finlayson et al			
	A61	4,412,018	10/1983	Finlayson et al.			
	A62	4,431,755	2/1984	Weber et al.			
	A63	4,434,075	2/1984	Mardis et al.			
	A64	4,434,076	2/1984	Mardis et al.			
	A65	4,450,095	5/1984	Finlayson			
	A66	3,136,819	6/1964	Shapiro et al			
	A67	4,454,237	6/1984	Hoda et al.			
	A68	4,455,382	6/1984	Wu			
	A69	4,462,470	7/1984	Alexander et al.			
	A70	4,464,274	8/1984	House			
✓	A71	4,465,542	8/1984	Furihata			
KS	A72	4,465,542	8/1984	Furihata			

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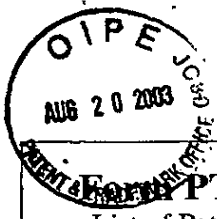
*Kynthia Sanders*

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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS	A73	4,472,538	9/1984	Kamigaito et al.			
A	A74	4,470,912	9/1984	Bea			
	A75	4,472,538	9/1984	Kamigaito et al			
	A76	4,473,477	9/1984	Beall			
	A77	4,473,675	9/1984	Knudson, Jr. et al.			
	A78	4,480,060	10/1984	Hoda et al.			
	A79	4,500,668	2/1985	Shimizu et al			
	A80	4,508,628	4/1985	Walker et al.			
	A81	4,517,094	5/1985	Beall			
	A82	4,528,104	7/1985	House et al.			
	A83	4,528,304	7/1985	Yoshimura et al			
	A84	4,549,966	10/1985	Beall			
	A85	4,552,712	11/1985	Ramamurthy			
	A86	4,558,075	12/1985	Suss et al			
	A87	4,569,923	2/1986	Knudson, Jr. et al.			
	A88	4,600,515	7/1986	Gleason et al.			
	A89	4,620,993	11/1986	Suss et al			
	A90	4,631,091	12/1986	Goodman			
	A91	4,640,716	2/1987	Cleland			
	A92	4,659,760	4/1987	Van der Meer			
	A93	4,664,842	5/1987	Knudson, Jr. et al.			
	A94	4,690,868	9/1987	Rice			
V	A95	4,695,402	9/1987	Finlayson et al.			
KS	A96	4,724,098	2/1988	Kalz et al.			

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<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO: 5628-02102  APPLICANT: Clois E. Powell  FILING DATE: May 4, 2001	SERIAL NO: 09/848,965  GROUP: 1714
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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS	A97	4,739,007	4/1988	Okada et al.			
↑	A98	4,743,305	5/1988	Doidge et al.			
	A99	4,743,306	5/1988	Jepson et al.			
	A100	4,753,974	6/1988	Goodman et al.			
	A101	4,775,586	10/1988	Bohrn et al			
	A102	4,786,558	11/1988	Sumiya et al.			
	A103	4,804,703	2/1989	Subramanian			
	A104	4,810,734	3/1989	Kawasumi et al			
	A105	4,876,030	10/1989	Dixon et al.			
	A106	4,889,885	12/1989	Usuki et al.			
	A107	4,990,405	2/1991	Bohrn et al.			
	A108	5,061,744	10/1991	Ogitani et al.			
	A109	5,089,200	2/1992	Chapman, Jr. et al.			
	A110	5,110,501	5/1992	Knudson, Jr. et al.			
	A111	5,151,155	9/1992	Cody et al.			
	A112	5,160,454	11/1992	Knudson, Jr. et al.			
	A113	5,164,433	11/1992	Ricci et al.			
	A114	5,164,440	11/1992	Deguchi et al.			
	A115	5,164,460	11/1992	Yano et al.			
	A116	5,248,641	9/1993	Bauer et al.			
	A117	5,310,775	5/1994	Sibilia et al.			
	A118	5,334,241	8/1994	Jordan			
KS	A119	5,376,604	12/1994	Iwasaki et al.			
	A120	5,385,776	1/1995	Maxfield et al.			

EXAMINER: *Kevin E. Anders*

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Information Disclosure Statement--PTO 1449 (modified)





<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO: 5628-02102  APPLICANT: Clois E. Powell  FILING DATE: May 4, 2001	SERIAL NO: 09/848,965  GROUP: 1714
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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KJ	A121	5,391,228	2/1995	Carrol			
AK	A122	5,514,734	5/1996	Maxfield et al.			
	A123	5,552,469	9/1996	Beall et al.			
	A124	4,623,398	11/1986	Goodman et al.			
	A125	5,574,179	11/1996	Wahl et al.			
	A126	5,576,257	11/1996	Jordan			
	A127	5,578,672	11/1996	Beall et al.			
	A128	5,616,286	4/1997	Jordan			
	A129	5,663,111	9/1997	Gadberry et al.			
	A130	5,700,319	12/1997	Bauer et al			
	A131	5,718,841	2/1998	Mardis et al.			
	A132	5,728,764	3/1998	Bauer et al.			
	A133	5,735,943	4/1998	Cody et al.			
	A134	5,739,087	4/1998	Dennis			
	A135	5,780,376	7/1998	Gonzales et al.			
	A136	5,785,749	7/1998	Knesek et al.			
	A137	5,786,417	7/1998	Ogawa et al.			
	A138	5,798,324	8/1998	Svoboda			
	A139	5,837,654	11/1998	Carroll et al.			
	A140	5,882,662	3/1999	Pahlck et al.			
	A141	5,883,173	3/1999	Elspace et al.			
	A142	5,900,309	5/1999	Kitamura et al.			
✓	A143	5,905,109	5/1999	Shimizu et al.			
KS	A144	5,916,863	6/1999	Iacobucci et al.			

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Information Disclosure Statement--PTO 1449 (modified)



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**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS A	A145	5,919,863	7/1999	Seppänen et al.			
	A146	5,955,535	9/1999	Vaia et al.			
	A147	5,962,553	10/1999	Ellsworth			
	A148	5,977,050	11/1999	Faris			
	A149	5,989,331	11/1999	Bauer et al.			
	A151	6,025,303	2/2000	Keilhofer et al.			
	A152	6,034,163	3/2000	Barbee et al.			
	A153	6,036,765	3/2000	Farrow et al.			
	A154	6,037,315	3/2000	Franklin et al.			
	A155	6,060,549	5/2000	Li et al.			
	A156	6,074,474	6/2000	Broome et al.			
	A157	6,084,019	7/2000	Matayabas, Jr. et al.			
	A158	6,087,016	7/2000	Feeney et al.			
	A159	6,113,891	9/2000	Burdick et al.			
	A160	6,124,245	9/2000	Patel			
	A161	6,133,374	10/2000	Nam et al.			
	A162	6,136,241	10/2000	Gauckler et al.			
A163	6,147,151	11/2000	Fukumoto et al.				
A164	6,187,719	2/2001	Dino et al.				
A165	6,221,831	4/2001	Emery				
A166	6,271,298	7/2001	Powell				
A167	US-2001-0056149-A1	12/2001	Powell				
✓ KS	A168	US-2002-0002230-A1	1/2002	Farrow et al.			
	A232	2,885,360	5/1959	Haden et al.			

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<b>U.S. PATENT DOCUMENTS</b>							
EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
KS A	A233	3,252,757	5/1966	Granquist			
	A234	3,586,478	6/1971	Neumann			
	A235	3,855,147	12/1974	Granquist			
	A236	3,954,943	5/1976	Neumann et al.			
	A237	4,033,764	7/1977	Colegate et al.			
	A238	4,454,244	6/1984	Woltermann			
	A239	4,789,403	12/1988	Rice			
	A240	5,102,948	4/1992	Deguchi et al.			
	A242	5,554,670	10/1996	Giannelis et al.			
	A243	6,153,572	11/2000	Stamm			
V KS	A241	6,225,374	5/2001	Vaia et al			
	A250	3,666,407	5/1972	Orlemann			
	A251	6,287,992	9/2001	Polansky et al.			

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Information Disclosure Statement--PTO 1449 (modified)

**Form PTO-1449** (modified)List of Patents and Publications  
For Applicant's Information  
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ATTY. DOCKET NO: 5628-02102

APPLICANT: Clois E. Powell

FILING DATE: May 4, 2001

SERIAL NO: 09/848,965

GROUP: 1714

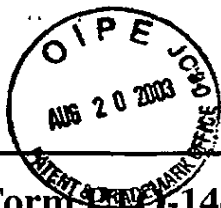
**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION. YES/NO
KS	A169	3 434983	4/1986	DE			
KS	A170	19726278	1/1998	DE			
	A171	0 221 225	5/1987	EP			
	A172	0 315 987	5/1989	EP			
	A173	0 204 240	12/1986	EP			
	A174	0 614 445	9/1994	EP			
	A175	0 304 782	4/1991	EP			
	A176	0 787 767	8/1997	EP			
	A177	0 798 267	10/1997	EP			
	A178	0 952 187	10/1999	EP			
	A179	1 090 954	4/2001	EP			
	A180	0 747 322	9/2001	EP			
	A181	62-252426	11/1987	JP			
	A182	06-172741	6/1994	JP			
	A183	07-207134	8/1995	JP			
	A184	07-228762	8/1995	JP			
	A185	09-067521	3/1997	JP			
	A186	08-012881	1/1996	JP			
	A187	08-053572	2/1996	JP			
	A188	08-259846	10/1996	JP			
KS	A189	09-194724	7/1997	JP			
KS	A190	51-109998	9/1976	JP			

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PTO 1700EXAMINER: Kurt SandersDATE CONSIDERED: 10/02

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Information Disclosure Statement--PTO 1449 (modified)



**Form PTO-1449** (modified)  
List of Patents and Publications  
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ATTY. DOCKET NO: 5628-02102

APPLICANT: Clois E. Powell

FILING DATE: May 4, 2001

SERIAL NO: 09/848,965

GROUP: 1714

**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
KS	A191	09-175817	7/1997	JP			
KS	A192	09-227778	9/1997	JP			
	A193	09-087096	3/1997	JP			
	A194	09-132695	5/1997	JP			
	A195	09-202843	8/1997	JP			
	A196	09-225991	9/1997	JP			
	A197	10 81785	3/1998	JP			
	A198	11 071509	3/1999	JP			
	A199	2000086234	3/2000	JP			
	A200	920,797	3/1963	UK			
	A201	1,054,111	1/1967	UK			
	A202	1,213,122	11/1970	UK			
	A203	1,432,770	4/1976	UK			
	A204	1,439,828	6/1976	UK			
	A205	2 158 053	11/1985	UK			
	A206	83/01208	4/1983	WO			
	A207	92/19693	11/1992	WO			
	A208	93/04117	3/1993	WO			
	A209	93/04118	3/1993	WO			
	A210	93/11190	6/1993	WO			
	A245	93/11069	6/1993	WO			
KS	A211	97/00910	1/1997	WO			
KS	A212	97/17398	5/1997	WO			

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<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DOCKET NO: 5628-02102  APPLICANT: Clois E. Powell  FILING DATE: May 4, 2001	SERIAL NO: 09/848,965  GROUP: 1714
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**FOREIGN PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION. YES/NO
KS	A213	97/27155	7/1997	WO			
↑	A214	97/30950	8/1997	WO			
	A215	97/42279	11/1997	WO			
	A216	98/53000	11/1998	WO			
↓	A217	98/56598	12/1998	WO			
KS	A218	98/56861	12/1998	WO			

**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

KS	A220	Granquist, W. T. and Pollack, S. S. "A Study of the Synthesis of Hectorite," <i>Proceedings 8<sup>th</sup> National Conference on Clays and Clay Minerals</i> , Volume 8, pages 150-169.
↑	A221	Fischer, E. K. "Rheological Properties of Dispersions" <i>Colloidal Dispersions</i> , J. Wiley & Sons LTD., 1950, pp. 147-172.
	A222	Oldroyd, J. J.; "Non-Newtonian Flow of Liquids and Solids" Eirich, R. R. ed., Academy Press, <i>Rheology Theory and Applications</i> , 1956, pp. 658-659.
	A223	Searle et al., "Chemistry and Physics of Clays and Other Ceramic Materials" 3 <sup>rd</sup> Edition, p. 462-464
	A224	Takahashi et al., "Study of Synthetic Clay Minerals. Part IV: Synthesis of Microcrystalline Stevesite from Hydromagnesite and Sodium Silicate." <i>Microporous Materials</i> 1997, 9, 3542.
↓	A225	Tori et al., "Hydrothermal Synthesis of Novel Smectite-like Mesoporous Materials." <i>J. Porous Materials</i> , 1997, 4, 261-268.
KS	A226	Miyata, S. "The Syntheses of Hydrotalcite-like Compounds and Their Structures," <i>Clays and Clay Minerals</i> , 1975, 25, 369-375.

EXAMINER: Spiller SandersDATE CONSIDERED: 10/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Information Disclosure Statement--PTO 1449 (modified)



<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DOCKET NO: 5628-02102 APPLICANT: Clois E. Powell FILING DATE: May 4, 2001		SERIAL NO: 09/848,965 GROUP: 1714		
<b>FOREIGN PATENT DOCUMENTS</b>						
EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
K.S	A227	Kloprogge, J. T., "Synthesis of Smectites and Porous Pillared Clay Catalysts: A Review." <i>J. Porous Materials</i> , 1998, 5, 5-41.				
↑	A228	Murphy, T. R., "Reinforced and Filled Thermoplastics," <i>Industrial and Engineering Chemistry</i> , 1966, Vol. 58, pp. 41-49.				
	A229	Zisman, W. A., "Improving the Performance of Reinforced Plastics," <i>Industrial and Engineering Chemistry</i> , 1965, Vol. 57, pp. 26-34.				
	A230	Dannenberg, E. M. "The Effects of Surface Chemical Interactions on the Properties of Filler-Reinforced Rubbers," <i>Journal of Rubber Chemistry and Technology</i> , 1975, pp. 410-444.				
	A231	Wang et al. "Clay-Polymer Nanocomposites formed from Acidic Derivatives of Montmorillonite and an Epoxy Resin" <i>Chemistry of Materials</i> , 1994, 6, pp.468-474.				
	A246	Cowan et al. "Adsorption by Organo-Clay Complexes," Peragamon Press Ltd., Swineford, A., <i>Ninth National Conference on Clays and Clay Minerals</i> 1960, 9, 459-467.				
	A247	Cowan et al. "Adsorption by Organo-Clay Complexes-Part 2", Pergamon Press Inc., <i>Symposium on Bentonites and Texas Uranium Deposits</i> , 1963, pp.226-235,				
↓	A248	Kloprogge et al., "Synthesis of Smectite Clay Minerals: A Critical Review" <i>Clays and Clay Minerals</i> , 1999, 47, pp. 529-554				
K.S	A249	Wang et al., "PVC-Clay Nanocomposites Preparation Thermal and Mechanical Properties," <i>Polymer Preprints</i> , 2001, p. 842-843				

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